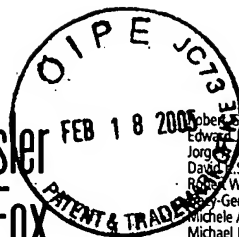




**Sterne Kessler  
Goldstein Fox**  
ATTORNEYS AT LAW



Robert E. Sterne  
Edward Kessler  
Jorge Goldstein  
David S. Cornwell  
Robert W. Esmond  
Gene G. Durkin  
Michele A. Cimbalà  
Michael A. Ray  
Robert E. Sokohl  
Eric K. Steffe  
Michael Q. Lee  
Steven R. Ludwig  
John M. Covert  
Linda E. Alcorn  
Robert C. Millonig  
Lawrence B. Bugalsky  
Donald J. Featherstone  
Michael V. Messinger

Judith U. Kim  
Timothy J. Shea, Jr.  
Patrick E. Garrett  
Jeffrey T. Hevrey  
Heidi L. Kraus  
Albert L. Ferro\*  
Donald R. Banowitz  
Peter A. Jackman  
Teresa U. Medler  
Jeffrey S. Weaver  
Kendrick P. Patterson  
Vincent L. Capuano  
Eldora Ellison Floyd  
Thomas C. Fiala  
Brian J. Del Buono  
Virgil Lee Beaston  
Theodore A. Wood  
Elizabeth J. Haanes

Joseph S. Ostroff  
Frank R. Cottingham  
Christine M. Thullier  
Rae Lynn P. Guest  
George S. Bardmesser  
Daniel A. Klein\*  
Jason D. Eisenberg  
Michael D. Specht  
Andrea J. Kamage  
Tracy L. Muller\*  
LuAnne M. DeSantis  
Ann E. Summerfield  
Aric W. Ledford\*  
Helene C. Carlson  
Timothy A. Doyle\*  
Gabry L. Longworth  
Lori A. Gordon\*  
Nicole D. Dretar\*

Ted J. Ebersole  
Jyoti C. Iyer\*  
Laura A. Vogel

**Registered Patent Agents\***  
Karen R. Markowicz  
Nancy J. Leith  
Matthew J. Dowd  
Aaron L. Schwartz  
Katrina Yujian Pei Quach  
Bryan L. Skelton  
Robert A. Schwartzman  
Teresa A. Colella  
Jeffrey S. Lundgren  
Victoria S. Rutherford  
Michelle K. Holoubek  
Robert H. DeSelms  
Simon J. Elliott

Julie A. Heider  
Mita Mukherjee  
Scott M. Woodhouse  
Michael G. Penn  
Christopher J. Walsh

**Of Counsel**  
Kenneth C. Bass III  
Evan R. Smith  
Marvin C. Guthrie

\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice Limited to  
Federal Agencies

162/1636

February 18, 2005

**WRITER'S DIRECT NUMBER:**  
(202) 772-8591

**INTERNET ADDRESS:**  
JMILLS@SKGF.COM

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Mail Stop: Amendment**

Re: U.S. Utility Patent Application  
Appl. No. 10/058,291; Filed: January 30, 2002  
For: **Recombinational Cloning Using Engineered Recombination Sites**  
Inventors: HARTLEY *et al.*  
Our Ref: 0942.285000I/RWE/BJD/JKM

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Fourth Supplemental Information Disclosure Statement;
2. List of cited references on Form PTO-1449 (6 sheets);
3. Copies of references **AN9 and AT111-AR116** listed on Form PTO-1449 (15 documents);
4. Fifth Supplemental Information Disclosure Statement;
5. List of cited references on Form PTO-1449 (8 sheets);
6. Copies of references **AS116-AT121** listed on Form PTO-1449 (17 documents);
7. Sixth Supplemental Information Disclosure Statement;
8. List of cited references on Form PTO-1449 (14 sheets);
9. Copies of references **AL20-AP20, AR200-AT200, AL21-AP21, AR201-AT201, AL22-AP22, AR202-AT202, AL23-AP23, AR203-AT203, AL24-AM24 and AR204-AS213** listed on Form PTO-1449 (63 documents);

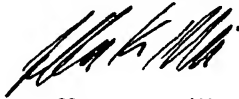
10. Seventh Supplemental Information Disclosure Statement;
11. List of cited references on Form PTO-1449 (2 sheets);
12. Copies of references **AN24 and AT213-AR214** listed on Form PTO-1449 (3 documents);
13. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey K. Mills  
Agent for Applicants  
Registration No. 56,413

BJD/JKM:bac  
Enclosures

366447\_1.DOC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hartley *et al.*

Appl. No.: 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning Using  
Engineered Recombination Sites**



Confirmation No.: 3302

Art Unit: 1636

Examiner: Akhavan, Ramin

Atty. Docket: 0942.285000I/RWE/BJD/JKM

**Fourth Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

The numbering on this Fourth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Third Supplemental Information Disclosure Statement filed August 25, 2003, in connection with the above-captioned application.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Hartley *et al.*  
Appl. No. 10/058,291

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey K. Mills  
Agent for Applicants  
Registration No. 56,413

Date: Feb. 18, 2005  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
293420\_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hartley *et al.*

Appl. No.: 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning  
Using Engineered  
Recombination Sites**

Confirmation No.: 3302

Art Unit: 1636

Examiner: Akhavan, Ramin

Atty. Docket: 0942.285000I/RWE/BJD/JKM

### Fifth Supplemental Information Disclosure Statement

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

The numbering on this Fifth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fourth Supplemental Information Disclosure Statement filed herewith, in connection with the above-captioned application.

Copies of documents **AR122-AT122** and **AR123-AT123** are not provided in accordance with the U.S. Patent and Trademark Office OG notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is *sua sponte* waived where the cited pending application is stored in the USPTO's IFW system." A copy of each other document is provided.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

U.S. Patent Application No. 09/984,239, Brasch *et al.*, filed October 29, 2001 and cited herewith as document **AR122**;

U.S. Patent Application No. 10/633,690, Byrd *et al.*, filed August 5, 2003 and cited herewith as document **AS122**;

U.S. Patent Application No. 10/877,952, Welch *et al.*, filed July 28, 2004 and cited herewith as document **AT122**;

U.S. Patent Application No. 10/913,501, Chesnut *et al.*, filed August 9, 2004 and cited herewith as document **AR123**;

U.S. Patent Application No. 10/970,635, Hanson, filed October 22, 2004 and cited herewith as document **AS123**; and

U.S. Patent Application No. 11/000,371, Chesnut *et al.*, filed December 1, 2004 and cited herewith as document **AT123**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

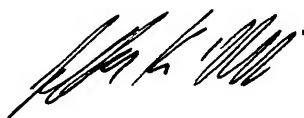
This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey K. Mills  
Agent for Applicants  
Registration No. 56,413

Date: Feb. 18, 2005  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
362275\_1.DOC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

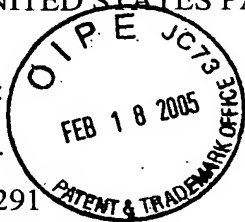
In re application of:

Hartley *et al.*

Appl. No.: 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning  
Using Engineered  
Recombination Sites**



Confirmation No.: 3302

Art Unit: 1636

Examiner: Akhavan, Ramin

Atty. Docket: 0942.285000I/RWE/BJD/JKM

**Sixth Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents AA20-AK20, AA21-AK21, AA22-AK22 and AA23-AH23 are not provided in accordance with the Changes To Support Implementation of the United States Patent and Trademark Office 21st Century Strategic Plan, effective October 21, 2004, which states "section 1.98(a)(2)(i) is amended to eliminate the requirement in paragraph (a)(2)(i) for a copy of each U.S. patent or U.S. patent application publication listed in an IDS in a patent application regardless of the filing date of the application." A copy of each other document is provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regard to non-English language documents AL20 and AM20 cited on Form PTO 1449:

Document AL20, French Patent Publication No. FR 2 670 502, is in the French language. Document AM20, PCT Patent Publication No. WO 92/10577, is in the French



language. An unverified English language abstract of documents **AL20** and **AM20** is attached as document **AS213**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Hartley *et al.*  
Appl. No. 10/058,291

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency,  
or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey K. Mills  
Agent for Applicants  
Registration No. 56,413

Date: Feb. 18, 2005  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
362283\_1.DOC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hartley *et al.*

Appl. No.: 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning  
Using Engineered  
Recombination Sites**



Confirmation No.: 3302

Art Unit: 1636

Examiner: Akhavan, Ramin

Atty. Docket: 0942.285000I/RWE/BJD/JKM

**Seventh Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

The numbering on this Seventh Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Sixth Supplemental Information Disclosure Statement filed herewith, in connection with the above-captioned application.

Copies of documents **AI23-AK23** and **AA24-AE24** are not provided in accordance with the Changes To Support Implementation of the United States Patent and Trademark Office 21st Century Strategic Plan, effective October 21, 2004, which states "section 1.98(a)(2)(i) is amended to eliminate the requirement in paragraph (a)(2)(i) for a copy of each U.S. patent or U.S. patent application publication listed in an IDS in a patent application regardless of the filing date of the application." A copy of each other document is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed

Hartley *et al.*  
Appl. No. 10/058,291

publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

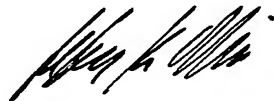
This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

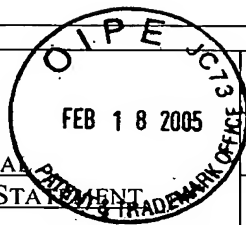
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey K. Mills  
Agent for Applicants  
Registration No. 56,413

Date: Feb. 18, 2005  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
362294\_1.DOC



FORM PTO-1449

FEB 18 2005

ATTY. DOCKET No.  
0942.2850001/RWE/BJD/JKMAPPLICATION No.  
10/058,291FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTAPPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS	<u>116</u>	Bruckner, R.C., and Cox, M.M., "The Histone-like H Protein of <i>Escherichia coli</i> is a ribosomal protein s3," <i>Nucl. Acids Res.</i> 17:3145-3161, Oxford University Press (1989)
	AT	<u>116</u>	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Res.</i> 10:1788-1795, Cold Spring Harbor Laboratory Press (November 2000)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>117</u>	Heyman, J.A., <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Res.</i> 9:383-392, Cold Spring Harbor Laboratory Press (April 1999)
	AS	<u>117</u>	Ohara, O., and Temple, G., "Directional cDNA library construction assisted by the <i>in vitro</i> recombination reaction," <i>Nucl. Acids Research</i> 29:e22(1-8), Oxford University Press (February 2001)
	AT	<u>117</u>	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>Am. Biotechnol. Lab.</i> 18:8,10, International Scientific Communications, Inc. (June 2000)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>118</u>	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist Inc. (August 21, 2000) available at: <a href="http://www.the-scientist.com/yr2000/aug/profile1_000821.html">http://www.the-scientist.com/yr2000/aug/profile1_000821.html</a>
	AS	<u>118</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: <a href="http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html">http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html</a> (accessed July 7, 2004)
	AT	<u>118</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: <a href="http://invitrogen.com/content.cfm?pageid=3371&amp;cfid=16767784&amp;cftoken=62396683">http://invitrogen.com/content.cfm?pageid=3371&amp;cfid=16767784&amp;cftoken=62396683</a> (accessed July 7, 2004)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>119</u>	Office Action for U.S. Patent Application No. 09/907,719, mailed on July 13, 2004
	AS	<u>119</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on July 16, 2004
	AT	<u>119</u>	Office Action for U.S. Patent Application No. 10/058,292, mailed on September 22, 2004

EXAMINER	DATE CONSIDERED
----------	-----------------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>120</u>	Office Action for U.S. Patent Application No. 09/855,797, mailed on October 1, 2004
	AS	<u>120</u>	Office Action for U.S. Patent Application No. 09/695,065, mailed on October 27, 2004
	AT	<u>120</u>	Office Action for U.S. Patent Application No. 10/820,133 mailed on November 17, 2004

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>121</u>	Office Action for U.S. Patent Application No. 09/907,719 mailed on December 28, 2004
	AS	<u>121</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on December 28, 2004
	AT	<u>121</u>	Office Action for U.S. Patent Application No. 10/796,868, mailed on January 25, 2005

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

 APPLICATION NO.  
10/058,291

 APPLICANT(S)  
Hartley *et al.*

 FILING DATE  
January 30, 2002

 ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>122</u>	U.S. Patent Application No. 09/984,239, Brasch <i>et al.</i> , filed October 29, 2001 (NOT PUBLISHED)
	AS	<u>122</u>	U.S. Patent Application No. 10/633,690, Byrd <i>et al.</i> , filed August 5, 2003 (NOT PUBLISHED)
	AT	<u>122</u>	U.S. Patent Application No. 10/877,952, Welch <i>et al.</i> , filed July 28, 2004 (NOT PUBLISHED)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

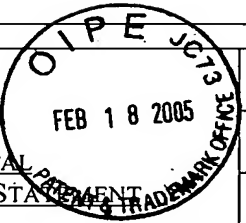
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>123</u>	U.S. Patent Application No. 10/913,501, Chesnut <i>et al.</i> , filed August 9, 2004 (NOT PUBLISHED)
	AS	<u>123</u>	U.S. Patent Application No. 10/970,635, Hanson, filed October 22, 2004 (NOT PUBLISHED)
	AT	<u>123</u>	U.S. Patent Application No. 11/000,371, Chesnut <i>et al.</i> , filed December 1, 2004 (NOT PUBLISHED)

EXAMINER	DATE CONSIDERED
----------	-----------------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 1 of 14	
FORM PTO-1449  SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	<div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-between;"> <div>           ATTY. DOCKET NO.            0942.285000I/RWE/BJD/JKM             APPLICANT(S)            Hartley <i>et al.</i>             FILING DATE            January 30, 2002         </div> <div>           APPLICATION NO.            10/058,291                ART UNIT            1636         </div> </div>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA20	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AB20	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AC20	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/1986
	AD20	5,451,513	09/19/1995	Maliga <i>et al.</i>			08/25/1993
	AE20	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AF20	6,066,778	05/23/2000	Ginsburg <i>et al.</i>			11/06/1996
	AG20	2002/0007051	01/17/2002	Cheo <i>et al.</i>			12/11/2000
	AH20	2002/0068290	06/06/2002	Yarovinsky			05/31/2001
	AI20	2002/0094574	07/18/2002	Hartley <i>et al.</i>			05/16/2001
	AJ20	2002/0106797	08/08/2002	Miles <i>et al.</i>			03/12/2001
	AK20	2002/0172997	11/21/2002	Hartley <i>et al.</i>			07/19/2001

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL20	FR 2 670 502	06/19/1992	France			Yes X No
	AM20	WO 92/10577	06/25/1992	WIPO			Yes X No
	AN20	WO 94/20604	09/15/1994	WIPO			Yes No
	AO20	WO 96/19497	06/27/1996	WIPO			Yes No
	AP20	WO 00/29000	05/25/2000	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>200</u>	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells. Targeted Expression of Cre Recombinase Provokes Cardiac-restricted, Site-specific Rearrangement in Adult Ventricular Muscle In Vivo," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)
	AS	<u>200</u>	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AT	<u>200</u>	Botstein, D., <i>et al.</i> , "Making Mutations <u>In Vitro</u> and Putting Them Back Into Yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)

EXAMINER	DATE CONSIDERED
----------	-----------------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FEB 18 2005

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKMAPPLICATION NO.  
10/058,291APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA21	2002/0182731	12/05/2002	Ji <i>et al.</i>			01/25/2002
	AB21	2002/0192819	12/19/2002	Hartley <i>et al.</i>			07/19/2001
	AC21	2003/0027289	02/06/2003	Farmer			04/05/2002
	AD21	2003/0054552	03/20/2003	Hartley <i>et al.</i>			01/30/2002
	AE21	2003/0054555	03/20/2003	Farmer <i>et al.</i>			09/17/2002
	AF21	2003/0059900	03/27/2003	Farmer			01/17/2002
	AG21	2003/0064515	04/03/2003	Hartley <i>et al.</i>			01/30/2002
	AH21	2003/0068799	04/10/2003	Hartley <i>et al.</i>			06/06/2002
	AI21	2003/0077804	04/24/2003	Byrd <i>et al.</i>			04/19/2002
	AJ21	2003/0100110	05/29/2003	Hartley <i>et al.</i>			11/02/1999
	AK21	2003/0124555	07/03/2003	Brasch <i>et al.</i>			05/21/2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL21	WO 00/52027	09/08/2000	WIPO			Yes No
	AM21	WO 00/52141	09/08/2000	WIPO			Yes No
	AN21	WO 01/25466	04/12/2001	WIPO			Yes No
	AO21	WO 01/31039	05/03/2001	WIPO			Yes No
	AP21	WO 01/42509	06/14/2001	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	201	Broach, J.R., "The Yeast Plasmid 2 $\mu$ Circle," <i>Cell</i> 28:203-204, MIT (1982)
	AS	201	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription-translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AT	201	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (September 1996)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

 APPLICATION NO.  
10/058,291

 APPLICANT(S)  
Hartley *et al.*

 FILING DATE  
January 30, 2002

 ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA22	2003/0153055	08/14/2003	Miles <i>et al.</i>			02/20/2003
	AB22	2003/0157662	08/21/2003	Gerard <i>et al.</i>			11/13/2002
	AC22	2003/0157716	08/21/2003	Hartley <i>et al.</i>			11/02/2001
	AD22	2003/0175970	09/18/2003	Hartley <i>et al.</i>			11/21/2002
	AE22	2003/0176644	09/18/2003	Byrd <i>et al.</i>			02/07/2002
	AF22	2003/0186233	10/02/2003	Chesnut <i>et al.</i>			12/07/2001
	AG22	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003
	AH22	2004/0040053	02/26/2004	Nomura <i>et al.</i>			11/22/2002
	AI22	2004/0053412	03/18/2004	Hartley <i>et al.</i>			03/26/2003
	AJ22	2004/0063207	04/01/2004	Hartley <i>et al.</i>			10/08/2003
	AK22	6,720,140	04/13/2004	Hartley <i>et al.</i>			02/04/2000

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL22	WO 02/08391	01/31/2002	WIPO			Yes No
	AM22	WO 02/16594	02/28/2002	WIPO			Yes No
	AN22	WO 02/46372	06/13/2002	WIPO			Yes No
	AO22	WO 02/061034	08/08/2002	WIPO			Yes No
	AP22	WO 02/62957	08/15/2002	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>202</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)
	AS	<u>202</u>	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
	AT	<u>202</u>	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

 APPLICATION NO.  
10/058,291

 APPLICANT(S)  
Hartley *et al.*

 FILING DATE  
January 30, 2002

 ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA23	2004/0171156	09/02/2004	Hartley <i>et al.</i>			04/02/2004
	AB23	2004/0171157	09/02/2004	Hartley <i>et al.</i>			04/08/2004
	AC23	2004/0219516	11/04/2004	Bennett <i>et al.</i>			07/18/2003
	AD23	2004/0219673	11/04/2004	Hartley <i>et al.</i>			03/10/2004
	AE23	2004/0229229	11/18/2004	Cheo <i>et al.</i>			08/14/2003
	AF23	2004/0253631	12/16/2004	Hartley <i>et al.</i>			07/19/2004
	AG23	2004/0265863	12/30/2004	Chesnut <i>et al.</i>			03/04/2004
	AH23	2005/0009091	01/13/2005	Hartley <i>et al.</i>			08/19/2004
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL23	WO 02/86144	10/31/2002	WIPO			Yes No
	AM23	WO 02/095055	11/28/2002	WIPO			Yes No
	AN23	WO 03/025161	03/27/2003	WIPO			Yes No
	AO23	WO 03/044207	05/30/2003	WIPO			Yes No
	AP23	WO 03/103600	12/18/2003	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>203</u>	Gottesman, S., "Bacterial Regulation: Global Regulatory Networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)
	AS	<u>203</u>	Guo, F., <i>et al.</i> , "Structure of Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
	AT	<u>203</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL24	WO 04/009768	01/29/2004	WIPO			Yes No
	AM24	WO 04/013290	02/12/2004	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>204</u>	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)
	AS	<u>204</u>	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (May 1995)
	AT	<u>204</u>	Huang, L-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>205</u>	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago (1986)
	AS	<u>205</u>	Johnston, S.A. and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
	AT	<u>205</u>	Kendall, K.J. and Cohen, S.N., "Plasmid Transfer in <i>Streptomyces lividans</i> : Identification of a <i>kil-kor</i> System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>206</u>	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)
	AS	<u>206</u>	Maniatis, T., "Recombinant DNA Procedures in the Study of Eukaryotic Genes," in <i>Cell Biology: A Comprehensive Treatise, Volume 3, Gene Expression: The Production of RNA's</i> , Goldstein, L., and Prescott, D.M., eds., Academic Press, Inc., New York, NY, pp. 563-608 (1980)
	AT	<u>206</u>	Mayer, B.J. and Baltimore, D., "Signalling through SH2 and SH3 domains," <i>Trends Cell Biol.</i> 3:8-13, Elsevier Science (1993)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>207</u>	McKnight, S.L., "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> 31:355-365, MIT (1982)
	AS	<u>207</u>	Nunes-Düby, S.E., <i>et al.</i> , "λ Integrase cleaves DNA <i>in cis</i> ," <i>EMBO J.</i> 13:4421-4430, Oxford University Press (1994)
	AT	<u>207</u>	Odell, J., <i>et al.</i> , "Site-directed recombination in the genome of transgenic tobacco," <i>Mol. Gen. Genet.</i> 223:369-378, Springer-Verlag (1990)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

 APPLICATION NO.  
10/058,291

 APPLICANT(S)  
Hartley *et al.*

 FILING DATE  
January 30, 2002

 ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>208</u>	Peterson, B.Ø. and Shuman, S., "Hisitidine 265 Is Important for Covalent Catalysis by Vaccinia Topoisomerase and Is Conserved in All Eukaryotic Type I Enzymes," <i>J. Biol. Chem.</i> 272:3891-3896, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)
	AS	<u>208</u>	Rausch, H. and Lehmann, M., "Structural analysis of the actinophage ΦC31 attachment site," <i>Nucleic Acids Res.</i> 19:5187-5189, IRL Press (1991)
	AT	<u>208</u>	Sadowski, I., <i>et al.</i> , "A Noncatalytic Domain Conserved among Cytoplasmic Protein-Tyrosine Kinases Modifies the Kinase Function and Transforming Activity of Fujinami Sarcoma Virus P130 <sup>gag-fps</sup> ," <i>Mol. Cell. Biol.</i> 6:4396-4408, American Society for Microbiology (1986)

EXAMINER	DATE CONSIDERED
----------	-----------------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>209</u>	Sauer, B. and Henderson, N., "Targeted Insertion of Exogenous DNA into the Eukaryotic Genome by the Cre Recombinase," <i>New Biol.</i> 2:441-449, Saunders Scientific Publications/W.B. Saunders Company (1990)
	AS	<u>209</u>	Senecoff, J.F., <i>et al.</i> , "The FLP recombinase of the yeast 2- $\mu$ m plasmid: Characterization of its recombination site," <i>Proc. Natl. Acad. Sci. USA</i> 82:7270-7274, National Academy of Sciences (1985)
	AT	<u>209</u>	Shaikh, A.C. and Sadowski, P.D., "The Cre Recombinase Cleaves the <i>lox</i> Site in <i>trans</i> ," <i>J. Biol. Chem.</i> 272:5695-5702, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes
							No
	AM						Yes
							No
	AN						Yes
							No
	AO						Yes
							No
	AP						Yes
							No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>210</u>	Shirai, M., <i>et al.</i> , "Site-Specific Integration of the Actinophage R4 Genome into the Chromosome of <i>Streptomyces parvulus</i> upon Lysogenization," <i>J. Bacteriol.</i> 173:4237-4239, American Society for Microbiology (1991)
	AS	<u>210</u>	Shuman, S., <i>et al.</i> , "Characterization of Vaccinia Virus DNA Topoisomerase I Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 263:16401-16407, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AT	<u>210</u>	Shuman, S., "Site-specific Interaction of Vaccinia Virus Topoisomerase I with Duplex DNA. Minimal DNA Substrate for Strand Cleavage <i>In Vitro</i> ," <i>J. Biol. Chem.</i> 266:11372-11379, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>211</u>	Shuman, S., "Erratum: Site-specific Interaction of Vaccinia Virus Topoisomerase I with Duplex DNA. Minimal DNA Substrate for Strand Cleavage <i>In Vitro</i> ," <i>J. Biol. Chem.</i> 266:20576-20577, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
	AS	<u>211</u>	Silver, P.A., <i>et al.</i> , "Amino terminus of the yeast <i>GAL4</i> gene product is sufficient for nuclear localization," <i>Proc. Natl. Acad. Sci. USA</i> 81:5951-5955, National Academy of Sciences (1984)
	AT	<u>211</u>	Stark, W.M., <i>et al.</i> , "Catalysis by site-specific recombinases," <i>Trends Genet.</i> 8:432-439, Elsevier Science (1992)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>212</u>	Ulmanen, I., <i>et al.</i> , "Transcription and Translation of Foreign Genes in <i>Bacillus subtilis</i> by the Aid of a Secretion Vector," <i>J. Bacteriol.</i> 162:176-182, American Society for Microbiology (1985)
	AS	<u>212</u> ✓	van Deursen, J., <i>et al.</i> , "Cre-mediated site-specific translocation between nonhomologous mouse chromosomes," <i>Proc. Natl. Acad. Sci. USA</i> 92:7376-7380, National Academy of Sciences (1995)
	AT	✓ <u>212</u>	Ward, J.M., <i>et al.</i> , "Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for <i>Streptomyces</i> using the aminoglycoside phosphotransferase gene from Tn5 as indicator," <i>Mol. Gen. Genet.</i> 203:468-478, Springer-Verlag (1986)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKM

APPLICATION NO.  
10/058,291

APPLICANT(S)  
Hartley *et al.*

FILING DATE  
January 30, 2002

ART UNIT  
1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

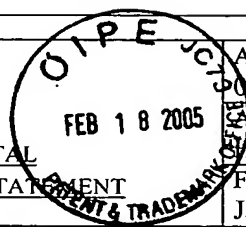
	AR	<u>213</u>	Invitrogen Life Technologies online catalog, "Directional TOPO Entry Vectors," 4 pages, accessed September 27, 2002, available at: <a href="http://www.invitrogen.com/content.cfm?pageid=3799&amp;cfid=2897960&amp;cftoken=88086554">http://www.invitrogen.com/content.cfm?pageid=3799&amp;cfid=2897960&amp;cftoken=88086554</a>
	AS	<u>213</u> ✓	Dialog File 351, Derwent World Patent Index, Unverified English Language Abstract for French Patent No. FR 2 670 502 (Document AL20) and PCT Patent No. WO 92/10577 (Document AM20), WPI Accession No. 9107201
	AT		

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKMAPPLICATION NO.  
10/058,291

## SEVENTH SUPPLEMENTAL

## INFORMATION DISCLOSURE STATEMENT

APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI23	6,040,138	03/21/2000	Lockhart <i>et al.</i>			09/15/1995
	AJ23	6,303,301	10/16/2001	Mack			05/29/1998
	AK23	6,309,822	10/30/2001	Fodor <i>et al.</i>			12/23/1996

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN24	WO 01/68836	09/20/2001	WIPO			Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	213	Baum, J.A., "Tn5401, a New Class II Transposable Element From <i>Bacillus thuringiensis</i> ," <i>J. Bacteriol.</i> 176:2835-2845, American Society for Microbiology (1994)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKMAPPLICATION NO.  
10/058,291

FEB 18 2005

APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA24	6,333,155	12/25/2001	Lockhart <i>et al.</i>			12/18/1998
	AB24	6,544,790	04/08/2003	Sabatini			09/18/2000
	AC24	2002/0162126	10/31/2002	Beach <i>et al.</i>			05/24/2001
	AD24	2003/0135888	07/17/2003	Zhu <i>et al.</i>			09/26/2002
	AE24	2003/0175772	09/18/2003	Wang			12/26/2002
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

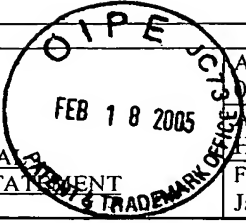
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	214	Short, J.M., <i>et al.</i> , "λ ZAP: a bacteriophage λ expression vector with <i>in vivo</i> excision properties," <i>Nucleic Acids Res.</i> 16:7583-7600, Oxford University Press (1988)
	AS		
	AT		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 1 of 6



FORM PTO-1449  
  
 FOURTH SUPPLEMENTAL  
 INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.  
 0942.2850001/RWE/BJD/JKM  
 APPLICANT(S)  
 Hartley *et al.*  
 FILING DATE  
 January 30, 2002

APPLICATION NO.  
 10/058,291  
  
 ART UNIT  
 1636

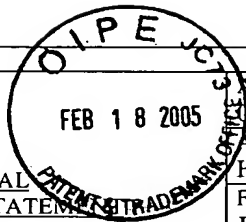
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes
							No
	AM						Yes
							No
	AN9	WO 02/00875	01/03/2002	WIPO			Yes
							No
	AO						Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
	AS		
	AT	111	Ball, C.A., and Johnson, R.C., "Efficient Excision of Phage $\lambda$ from the <i>Escherichia coli</i> Chromosome Requires the Fis Protein," <i>J. Bacteriol.</i> 173: 4027-4031, American Society for Microbiology (July 1991)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449		ATTY. DOCKET NO. 942.2850001/RWE/BJD/JKM		APPLICATION NO. 10/058,291	
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT(S) Hartley <i>et al.</i>		FILING DATE January 30, 2002	
				ART UNIT 1636	

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

### FOREIGN PATENT DOCUMENTS

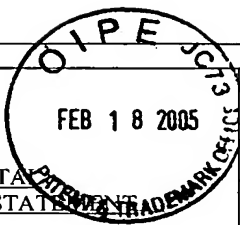
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>112</u>	Institut Pasteur Website, Introduction: <a href="http://www.pasteur.fr/recherche/unites/pmtg/integ/intro.html">http://www.pasteur.fr/recherche/unites/pmtg/integ/intro.html</a> (accessed 6/19/2003)
	AS	<u>112</u>	Institut Pasteur Website, Figure 1: <a href="http://www.pasteur.fr/recherche/unites/pmtg/integ/fig1.html">http://www.pasteur.fr/recherche/unites/pmtg/integ/fig1.html</a> (accessed 6/19/2003)
	AT	<u>112</u>	Institut Pasteur Website, Figure 2: <a href="http://www.pasteur.fr/recherche/unites/pmtg/integ/fig2.html">http://www.pasteur.fr/recherche/unites/pmtg/integ/fig2.html</a> (accessed 6/19/2003)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FEB 18 2005

ATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKMAPPLICATION NO.  
10/058,291APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636FOURTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

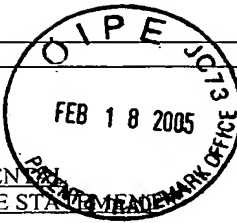
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>113</u>	Institut Pasteur Website, Figure 3: <a href="http://www.pasteur.fr/recherche/unites/pmtg/integ/fig3.html">http://www.pasteur.fr/recherche/unites/pmtg/integ/fig3.html</a> (accessed 6/19/2003)
	AS	<u>113</u>	Institut Pasteur Website, Main page: <a href="http://www.pasteur.fr/recherche/unites/pmtg">http://www.pasteur.fr/recherche/unites/pmtg</a> (accessed 6/19/2003)
	AT	<u>113</u>	Kuempel, P., <i>et al.</i> , "Use of a transposon (Tndif) to obtain suppressing and nonsuppressing insertions of the <i>dif</i> resolvase site of <i>Eschericia coli</i> ," <i>Genes &amp; Development</i> 10:1162-1171, Cold Spring Harbor Laboratory Press (May 1, 1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FOURTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKMAPPLICATION NO.  
10/058,291APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

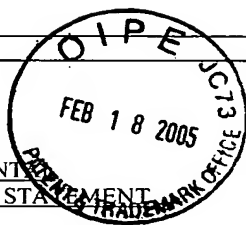
	AR	<u>114</u>	Lee, M.H., <i>et al.</i> , "Site-specific integration of mycobacteriophage L5: Integration-proficient vectors for <i>Mycobacterium smegmatis</i> , <i>Mycobacterium tuberculosis</i> , and bacille Calmette-Guérin," <i>Proc. Natl. Acad. Sci. USA</i> 88:3111-3115, National Academy of Sciences (1991)
	AS	<u>114</u>	Lenski, R.E., <i>et al.</i> , "Genetic Analysis of a Plasmid-Encoded, Host Genotype-Specific Enhancement of Bacterial Fitness," <i>J. Bacteriol.</i> 176:3140-3147, American Society For Microbiology (1994)
	AT	<u>114</u>	Manning, P.A., <i>et al.</i> , "Gene Capture in <i>Vibrio cholera</i> ," <i>Trends in Microbiology</i> 7:93-95, Elsevier Science (1999)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.





FORM PTO-1449

FOURTH SUPPLEMENT  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKMAPPLICATION NO.  
10/058,291APPLICANT(S)  
Hartley *et al.*FILING DATE  
January 30, 2002ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

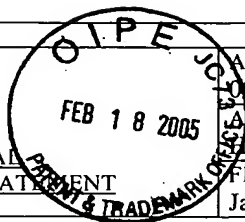
	AR	<u>115</u>	Murayama, N., <i>et al.</i> "Evidence for Involvement of <i>Escherichia coli</i> Genes <i>pmbA</i> , <i>csrA</i> and a Previously unrecognized Gene <i>tldD</i> , in the Control of DNA Gyrase by <i>letD</i> ( <i>ccdB</i> ) of Sex Factor F," <i>J. Mol. Biol.</i> 256:483-502 Academic Press Limited (March 1,1996)
	AS	<u>115</u>	Shuman, S., "Novel Approach to Molecular Cloning and Polynucleotide Synthesis Using Vaccinia DNA Topoisomerase," <i>J. Biol. Chem.</i> 269:32678-32684, American Society for Biochemistry and Molecular Biology, Inc. (1994)
	AT	<u>115</u>	Stuurman, J., <i>et al.</i> , "Single-site manipulation of tomato chromosomes <i>in vitro</i> and <i>in vivo</i> using Cre-lox site-specific recombination," <i>Plant Molecular Biology</i> 32:901-913, Kluwer Academic Publishers (November 27,1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 6 of 6	
FORM PTO-1449	<div style="display: flex; justify-content: space-between;"> <div> ATTY. DOCKET NO. 0942.2850001/RWE/BJD/JKM  APPLICANT(S) Hartley <i>et al.</i>  FILING DATE January 30, 2002 </div> <div> APPLICATION NO. 10/058,291  ART UNIT 1636 </div> </div>
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	116	Zechiedrich, E.L., <i>et al.</i> , "Topoisomerase IV, not gyrase, decatenates products of site-specific recombination in <i>Escherichia coli</i> ," <i>Genes Dev.</i> 11:2580-2592, Cold Spring Harbor Laboratory Press (1997)
	AS		
	AT		

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	